

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently Amended) A method of forming a coated substrate ~~which comprises~~
comprising:

providing a substrate;

forming having a plasma polymer coating on said substrate via plasma polymerization, said coating containing residual unpolymerized polymerizable functional meth(acrylate) groups thereon which remain in the coating after a said plasma polymerization is effected to form the coating, and without applying additional plasma to said substrate having a plasma polymer coating thereon;

applying a radiation curable composition to ~~the provided~~ said plasma polymer-coated substrate; ~~wherein the radiation curable composition comprises at least one component which forms a reaction product with the residual unpolymerized polymerizable functional groups when radiation is applied, and~~

radiation curing the radiation curable composition such that at least one component of said radiation curable composition forms a reaction product with said residual unpolymerized polymerizable functional meth(acrylate) groups,

wherein no additional plasma is applied to said plasma polymer-coated substrate before applying said radiation curable composition.

2. (Original) A method of forming a coated substrate according to claim 1, wherein the radiation curable composition is a radiation curable gravure ink.

3. (Original) A method of forming a coated substrate according to claim 1, wherein the radiation curable composition is a radiation curable flexographic ink.

4. (Original) A method of forming a coated substrate according to claim 1, wherein the radiation curable composition is a radiation curable lithographic ink.

5. (Original) A method of forming a coated substrate according to claim 1, wherein the radiation curable composition is a radiation curable ink comprising a colorant composition and a radiation curable liquid vehicle.

6. (Previously Presented) A method of forming a coated substrate according to claim 5, wherein the radiation curable vehicle comprises an alpha, beta-ethylenically unsaturated compound.

7. (Original) A method of forming a coated substrate according to claim 6, wherein the alpha, beta-ethylenically unsaturated compound comprises a (meth) acrylate.

8. (Canceled)

9. (Original) A method of forming a coated substrate according to claim 1, further comprising forming said plasma polymer coating.

10. (Original) A method of forming a coated substrate according to claim 1, wherein said curing is electron beam curing.

11. (Original) A method of forming a coated substrate according to claim 1, wherein said curing is UV curing.

12. (Currently Amended) A radiation cured, coated substrate comprising:

a substrate;

~~having~~ a plasma polymer coating containing residual unpolymerized polymerizable functional meth(acrylate) groups formed on said substrate by plasma polymerization; and

~~thereon and~~ a radiation cured composition applied on the plasma polymer-coated substrate, wherein

a reaction product is formed between a portion of the plasma polymer coating and a portion of the radiation cured composition ~~have formed a reaction product without~~ upon radiation curing of the radiation cured composition, and

no additional ~~any~~ plasma is applied to the plasma polymer-coated substrate ~~coating after it is formed by plasma polymerization to contain residual unpolymerized polymerizable functional groups thereon and no additional plasma has been applied thereto before the reaction product is formed before applying the radiation cured composition~~ the reaction product is formed.

13. (Original) A coated substrate according to claim 12, wherein radiation cured composition is a radiation cured gravure ink.

14. (Original) A coated substrate according to claim 12, wherein the radiation cured composition is a radiation cured flexographic ink.

15. (Original) A coated substrate according to claim 12, wherein the radiation cured composition is a radiation cured lithographic ink.

16. (Previously Presented) A coated substrate according to claim 12, wherein the radiation cured composition is a radiation cured ink comprising a colorant and a radiation curable liquid vehicle.

17. (Previously Presented) A coated substrate according to claim 16, wherein the vehicle comprises a polymerizable (meth)acrylate.

18. (Canceled)

19. (Previously Presented) A coated substrate according to claim 18, wherein the radiation cured composition is a radiation cured ink comprising a colorant and a radiation curable liquid vehicle.

20. (Previously Presented) A coated substrate according to claim 19, wherein the vehicle comprises a polymerizable (meth) acrylate.